We claim:

1. A method for manufacturing a metal foil connection of first and second metal foils using a metal foil-brazing medium particle fraction, the method which comprises:

providing the first and second metal foils with a thickness of between 10 and 25 $\mu \mathrm{m};$

applying glue to the first and second metal foils;

subsequently placing the metal foil-brazing medium particle fraction in contact with the first and second metal foils;

brazing the first and second metal foils together at a connecting point forming a wedge; and

providing the metal foil-brazing medium particle fraction with a maximum diameter of 0.08 mm and a minimum diameter of 0.02 mm for a metal foil thickness of substantially 0.02 mm.

2. A method for manufacturing a metal foil connection, which comprises:

providing a first and a second metal foil having a thickness DF of between 10 and 25 $\mu m;$

brazing the first and the second metal foils to one another at a connecting point forming a wedge;

filling the wedge with brazing medium having a mass ML in the wedge; and

setting a ratio ML/DF of the mass ML of the brazing medium in the wedge to the thickness DF of the metal foils to be substantially between 8 g/m and 16 g/m.

3. A method for manufacturing a metal foil connection, which comprises:

providing a first and a second metal foil having a thickness DF of between 10 and 25 $\mu m;$

brazing the first and the second metal foils to one another at a connecting point forming a wedge;

filling the wedge with brazing medium having a mass ML in the wedge; and

setting an upper limit of the mass ML of the brazing medium dependent on the metal foil thickness DF given by an intersection of coordinates for (ML/DF; DF) of (14.8 g/m; 0.025 mm), (16 g/m; 0.02 mm) and (27 g/m; 0.01 mm), with ML/DF being

a ratio of the mass ML of the brazing medium in the wedge to the thickness DF of the metal foils.

- 4. The method according to claim 2, wherein the mass ML of the brazing medium has a lower limit dependent on the metal foil thickness DF given by an intersection of and lying along a curve passing through coordinates for (ML/DF; DF) of (9 g/m; 0.025 mm), (9.2 g/m; 0.02 mm) and (16 g/m; 0.01 mm).
- 5. A method for manufacturing a metal foil connection, which comprises:

providing a first and a second metal foil having a thickness DF of between 10 and 25 μm ;

brazing the first and the second metal foils to one another at a connecting point forming a wedge;

filling the wedge with brazing medium having a mass ML in the wedge; and

setting the mass ML of the brazing medium to be dependent on the metal foil thickness DF and to lie along an intersection of coordinates for (ML/DF; DF) of (11.2 g/m; 0.025 mm), (12 g/m; 0.02 mm) and (20 g/m; 0.01 mm), with ML/DF being a ratio of the

mass ML of the brazing medium in the wedge to the thickness DF of the metal foils.

- 6. The method according to claim 2, wherein the ratio ML/DF of the mass of the brazing medium ML in the wedge to the metal foil thickness DF is substantially = 11 g/m, with a variation of between +15% and -10%.
- 7. A method for manufacturing a body, which comprises:

providing sheet metal layers formed of at least partly structured metal foils having a thickness DF of between 10 and 25 μm ;

at least partly brazing the sheet metal layers to one another at brazed connecting points each having a metal foil connection with two of the metal foils forming a wedge;

filling the wedges with brazing medium having a mass ML in the wedges; and

setting a ratio ML/DF of the mass ML of the brazing medium in each of the wedges to the thickness DF of the metal foils to be substantially between 11 g/m and 16 g/m.

- 8. A method for manufacturing a honeycomb body having metal foils with a thickness of between 10 and 25 μm , which comprises connecting the metal foils to each other at a multiplicity of metal foil connections each formed according to claim 2.
- 9. A method for manufacturing a metal foil connection of first and second metal foils using a metal foil-brazing medium particle fraction, the method which comprises:

providing the first and second metal foils with a thickness substantially between 20 μm and 25 $\mu m;$

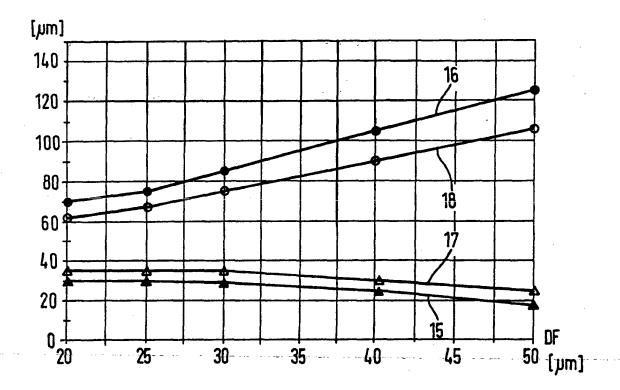
applying glue to the first and second metal foils;

subsequently placing the metal foil-brazing medium particle fraction in contact with the first and second metal foils;

brazing the first and second metal foils together at a connecting point forming a wedge; and

selecting a minimum diameter and a maximum diameter of the metal foil-brazing medium particle fraction in dependence on the thickness of metal foils between lines 15 and 16 on the following graph:

Bandwidth of Particle Sizes



with the abscissa representing the foil thickness in μm and the ordinate representing the particle diameter in μm .

10. A method for manufacturing a metal foil connection of first and second metal foils using a metal foil-brazing medium particle fraction, the method which comprises:

providing the first and second metal foils with a thickness substantially between 20 μm and 25 $\mu m;$

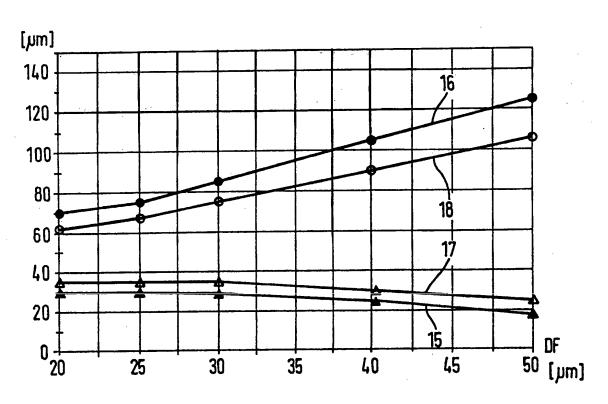
applying glue to the first and second metal foils;

subsequently placing the metal foil-brazing medium particle fraction in contact with the first and second metal foils;

brazing the first and second metal foils together at a connecting point forming a wedge; and

selecting a minimum diameter and a maximum diameter of the metal foil-brazing medium particle fraction in dependence on the thickness of metal foils between lines 17 and 18 on the following graph:

Bandwidth of Particle Sizes



with the abscissa representing the foil thickness in μm and the ordinate representing the particle diameter in μm .

11. A method for manufacturing a metal foil connection of first and second metal foils using a metal foil-brazing medium particle fraction, the method which comprises:

providing the first and second metal foils with a thickness DF substantially between 20 μm and 25 μm ;

applying glue to the first and second metal foils;

subsequently placing the metal foil-brazing medium particle fraction in contact with the first and second metal foils;

brazing the first and second metal foils together at a connecting point forming a wedge; and

selecting a minimum diameter MinPD and a maximum diameter MaxPD of the metal foil-brazing medium particle fraction in μm in dependence on the thickness DF of metal foils in μm from the following table:

| DF | MinPD | MaxPD |
|------------|------------|------------|
| approx. 20 | approx. 30 | approx. 70 |
| approx. 25 | approx. 30 | approx. 74 |

and values located therebetween.

12. A method for manufacturing a metal foil connection of first and second metal foils using a metal foil-brazing medium particle fraction, the method which comprises:

providing the first and second metal foils with a thickness DF substantially between 20 μm and 25 $\mu m;$

applying glue to the first and second metal foils;

subsequently placing the metal foil-brazing medium particle fraction in contact with the first and second metal foils;

brazing the first and second metal foils together at a connecting point forming a wedge; and

selecting a minimum diameter MinPD and a maximum diameter MaxPD of the metal foil-brazing medium particle fraction in μm in dependence on the thickness DF of metal foils in μm from the following table:

| DF | MinPD | MaxPD |
|------------|------------|------------|
| approx. 20 | approx. 35 | approx. 61 |
| approx. 25 | approx. 35 | approx. 68 |

and values located therebetween.

- 13. The method according to claim 1, wherein the first and second metal foils have a minimum thickness of up to 0.01 mm.
- 14. The method according to claim 1, wherein the first and second metal foils have a minimum thickness of up to 0.01 mm and a maximum thickness of less than 0.025 mm.
- 15. The method according to claim 1, wherein the first and second metal foils have a thickness of 10 μm .
- 16. The method according to claim 1, wherein the first and second metal foils have a thickness of 20 μm .
- 17. The method according to claim 1, wherein the first and second metal foils have a thickness of between 10 and 20 μm .
- 18. The method according to claim 2, wherein the first and second metal foils have a thickness of 10 μm .

- 19. The method according to claim 2, wherein the first and second metal foils have a thickness of 20 μm .
- 20. The method according to claim 2, wherein the first and second metal foils have a thickness of between 10 and 20 μm .
- 21. The method according to claim 6, wherein the first and second metal foils have a thickness of 10 μm .
- 22. The method according to claim 6, wherein the first and second metal foils have a thickness of 20 μm .
- 23. The method according to claim 6, wherein the first and second metal foils have a thickness of between 10 and 20 μm .
- 24. The method according to claim 7, wherein the first and second metal foils have a thickness of 10 μm .
- 25. The method according to claim 7, wherein the first and second metal foils have a thickness of 20 μm .
- 26. The method according to claim 7, wherein the first and second metal foils have a thickness of between 10 and 20 μm .
- 27. The method according to claim 8, wherein the first and second metal foils have a thickness of 10 μm .

- 28. The method according to claim 8, wherein the first and second metal foils have a thickness of 20 $\mu m\,.$
- 29. The method according to claim 8, wherein the first and second metal foils have a thickness of between 10 and 20 μm .
- 30. The method according to claim 9, wherein the first and second metal foils have a thickness of 10 μm .
- 31. The method according to claim 9, wherein the first and second metal foils have a thickness of 20 μm .
- 32. The method according to claim 9, wherein the first and second metal foils have a thickness of between 10 and 20 μm .
- 33. The method according to claim 10, wherein the first and second metal foils have a thickness of 10 μm .
- 34. The method according to claim 10, wherein the first and second metal foils have a thickness of 20 μm .
- 35. The method according to claim 10, wherein the first and second metal foils have a thickness of between 10 and 20 μm .
- 36. The method according to claim 11, wherein the first and second metal foils have a thickness of 10 μm .

- 37. The method according to claim 11, wherein the first and second metal foils have a thickness of 20 μm .
- 38. The method according to claim 11, wherein the first and second metal foils have a thickness of between 10 and 20 $\mu m\,.$
- 39. The method according to claim 12, wherein the first and second metal foils have a thickness of 10 $\mu m\,.$
- 40. The method according to claim 12, wherein the first and second metal foils have a thickness of 20 $\mu m\,.$
- 41. The method according to claim 12, wherein the first and second metal foils have a thickness of between 10 and 20 μm .